Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.

SHOUT
SHARE
IT

P69P
Suppl.
Cop. 2

THE PLANT DISEASE BULLETIN

LIBRARY
RECEIVED
OCT 25 1916
U.S. DEPT. OF AGRICULTURE

Issued By

THE PLANT DISEASE SURVEY

SUPPLEMENT 13

Index to Supplements 8 - 12

December 31, 1920

BUREAU OF PLANT INDUSTRY

UNITED STATES DEPARTMENT OF AGRICULTURE

INDEX TO SUPPLEMENTS VIII --- XII, PLANT DISEASE BULLETIN

1920

Prepared by Mary G. Van Meter

Actinomyces scabies, beet, 253.
potato, 192.
radish, 241.
Aecidium grossulariae, currant, 170.
Albino, corn, 66.
Albugo candida, horseradish, 240.
mustard, 240.
radish, 241.
shepherd's purse, 306.
turnip, 241.
ipomoeae-panduranae, sweet potato, 224.
tragopogonis, salsify, 271.
Alfalfa, anthracnose, 70.
bacterial blight, 70.
dodder, 71.
downy mildew, 70.
frost injury, 71.
leaf spot, Cercospora, 71.
Pseudopeziza, 69.
root knot, 71.
root rot, Fusarium, 71.
Ozonium, 71.
Rhizoctonia, 70.
Sclerotinia, 70.
rust, 71.
stem disease, Diplodia, 71.
Phoma, 71.
Stem spot, 71.
white leaf spot, 71.
yellowing, 71.
yellow leaf blotch, 69.
Almond, kernel mold, 161.
scab, 161.
Alternaria brassicae, cabbage, 238.
horseradish, 240.
brassicae nigrescens, cantaloupe, 242.
cucumber, 247.
panax, ginseng, 260.
sp., apple, 135.
beet, 254.
citrus, 175.
cotton, 282.
lettuce, 263.
oats, 58.
pepper, 269.
rhubarb, 270.
watermelon, 251.
wheat, 37.
turnip, 242.
Amerosporium oeconomicum, cowpea, 74.
Ampelopsis sp., leaf spot, 299.
powdery mildew, 299.
Angular leaf spot, bean, 232.
cotton, 276, 278, 329.
cucumber, 247.
currant, 170.
tobacco, 273.
Anthracnose, alfalfa, 70.
apple, 126.
asparagus, 253.
barley, 49.
bean, 227, 326, 327.
blackberry, 169.
blue grass, 76.
camphor, 289.
cantaloupe, 242.
citrus, 174.
clover, 72.
corn, 66.
cotton, 276, 329.
cowpea, 74.
cucumber, 246.
currant, 170.
eggplant, 260.
fescue grass, 78.
fig, 177.
gooseberry, 171.
grape, 163.
hickory, 290.
magnolia, 291.
maple, 291.
meadow foxtail grass, 79.
oak, 293.
oat grass, 79.
oats, 58.
orchard grass, 77.

panic grass, 79.
pecan, 179.
pepper, 270.
potato, 203.
privet, 302.
raspberry, 166.
rhubarb, 270.
rose, 303.
rye, 40.
snapdragon, 304.
spinach, 272.
sycamore, 298.
tomato, 220.
watermelon, 248.
wheat, 33.
wheat grass, 80.
Aplanobacter michiganensis, tomato, 220.
stewartii, corn, 63.
stizolobii, velvet bean, 75.
Apple, anthracnose, 126.
bark cankers, 136.
bitter pit, 129.
bitter rot, 91, 331.
black rot, 113, 331.
blister canker, 125.
blotch, 96, 331.
brown bark spot, 136.
brown rot, 128.
canker, Cytospora, 136.
Myxosporium, 137.
Radulum bark, 137.
Rhabdospora bark, 137.
Schizophyllum, 137.
scurfy bark, 136.
Septobasidium, 136.
cedar rust, 331.
collar rot, 138.
crown gall, 127.
drought spot, 132.
fall frost injury, 133.
fire blight, 115, 332.
fly speck, 122.
freezing injury, 133.
fruit rot, 135.
fruit spot, 121.
hail injury, 134.
Jonathan spot, 131.
late red spotting, 135.
leaf spot, Cercospora, 136.
miscellaneous, 136.
measles, 137.
miscellaneous bark cankers, 136.
miscellaneous fruit rots & spots, 135.
pink rot, 135.
powdery mildew, 118.
root rots, 138.
Armillaria, 137.
Clitocybe, 137.
Ozonium, 137.
Xylaria, 137.
rosette, 130.
rot, blue mold, 128.
Phytophthora, 135.
rust, 103.
scab, 84, 332.
silver leaf disease, 136.
sooty blotch, 122.
spray injury, 134.
spring frost injury, 133.
storage rot, 136.
storage scald, 132.
sun scald, 133.
water core, 131.
winter injury, 133.
Apricot, brown rot, 161.
Coryneum blight, 161.
fruit spot, 161.
leaf spots, 161.
scab, 161.
water injury, 161.
Armillaria mellea, oak, 294.
peach, 155.
pear, 143.
potato, 204.
sp., apple, 137.
cherry, 160.
Artichoke (globe) Botrytis sp., 252.
Artichoke (Jerusalem), mildew, 252.
Ascochyta caulicola, sweet clover, 74.
chrysanthemi, chrysanthemum, 300.
fragariae, strawberry, 166.
imperfecta, alfalfa, 71.
pisi, vetch, 74.
rhei, rhubarb, 270.
Ash, leaf blight, 288.
leaf spot, 288.
rust, 288.
Asparagus, anthracnose, 253.
dwarfing, 253.
Fusarium sp., 253.
malformation, 253.
rust, 252.
stem rot, 253.
Aspergillus niger, onion, 234.

Aster, Fusarium wilt, 299.
powdery mildew, 299.
Rhizoctonia, 299.
undetermined disease, 299.
yellows, 299.
Avocado, fruit spot, 178.
scab, 178.

B

Bacillus amylovorus, apple, 115, 332.
loquat, 178.
pear, 138.
plum, 159.
quince, 143.
atrosepticus, potato, 193, 319.
carotovorus, cabbage, 238.
carrot, 254.
lettuce, 263.
tobacco, 273.
turnip. 241.
lathyri, bean, 232.
clover, 73.
cowpea, 74.
pea, 266.
soy bean, 75.
sweet pea, 304.
mori, mulberry, 172.
solanacearum (see Bacterium solanacearum).
sorghi, sorghum, 69.
sp., cucumber, 248.
tracheiphilus, cantaloupe, 242.
cucumber, 245.
squash, 248.
watermelon, 251.
Bacteria, tomato, 220, 221.
Bacterial disease, rye, 42.
Bacterial gummosis, cherry, 161.
Bacterium angulatum, tobacco, 273.
atrofaciens, wheat, 36.
campestre, cabbage, 237.
rutabaga, 241.
turnip, 241.
cerasi, cherry, 161.
erodii, geranium, 300.
glycineum, soy bean, 75.
juglandis, walnut, 179.
lachrymans, cucumber, 247.
maculicolum, cabbage, 239.
malvacearum, cotton, 276, 278, 282, 329.
marginale, lettuce, 264.
medicaginis, alfalfa, 70.
phaseoli, bean, 226, 326, 327.
lima bean, 264.
pisi, pea, 266.
pruni, peach, 152.
plum, 158.
solanacearum, eggplant, 259.
pepper, 269.
potato, 190.
tomato, 215, 323.
tabacum, tobacco, 273.
translucens, barley, 50.
translucens var. undulosum, wheat, 32.
tumefaciens, apple, 127.
beet, 253.
blackberry, 169.
grape, 163.
peach, 153.
pear, 142.
pecan, 179.
plum, 158.
quince, 143.
raspberry, 168.
rose, 303.
walnut, 179.
vitians, lettuce, 264.
Banana, freckle, 178.
wilt, 178.
Barley, anthracnose, 49.
bacterial blight, 50.
covered smut, 42, 313.
ergot, 50.
false stripe, 50.
foot rot, 50.
frost injury, 50.
loose smut, 44, 313.
net blotch, 49.
powdery mildew, 50.
Rhynchosporium blight, 49.
rust, leaf, 47, 313.
stem, 46, 314.
stripe, 50.
scab, 48, 314.
Septoria sp., 50.
spot blotch, 49.
stripe, 45, 313.
Basal glume rot, wheat, 36.
Bean, angular leaf spot, 232.
anthracnose, 227, 326, 327.
bacterial blight, 226, 326, 327.
chlorosis, 232.
damping off, 232.

drop, 231.
Fusarium martii phaseoli, 230.
sp., 230.
leaf spot, 232.
Cercospora, 232.
mosaic, 229, 326, 327.
pod blight, 232.
powdery mildew, 230.
root knot, 231.
root rots, 326, 327.
Ozonium, 231.
rust, 228.
southern blight, 231.
stem rot, Fusarium, 230.
Rhizoctonia, 230.
streak, 232.
watery soft rot, 231.
Beech, Gloeosporium fagi, 288.
Microstroma sp., 288.
Phyllosticta fagicola, 288.
Beet, bacterial heart rot, 254.
crown gall, 253.
crown rot, 253.
curly top, 254.
Diplodia sp., 254.
Fusarium spp. 254.
leaf blight, 253.
leaf spot, Alternaria, 254.
Phoma, 253.
mosaic, 254.
Mucor sp., 254.
Penicillium sp., 254.
purple leaf disease, 254.
Rheosporangium aphanidermatus, 254.
Rhizoctonia, 253.
Rhizopus nigricans, 254.
root knot, 253.
scab, 253.
stem rot, 253.
sugar beet nematode, 254.
Begonia, leaf spot, 299.
root knot, 299.
Bermuda grass, leaf rust, 77.
rust, 77.
Birch, canker, 288.
Melanconium betulinum, 288.
Phyllosticta betulina, 288.
Bitter pit, apple, 129.
Bitter rot, apple, 91, 331.
cranberry, 171.
Blackberry, anthracnose, 169.
cane blight, 170.
crown gall, 169.
double blossom, 170.
leaf blight, 170.
leaf spot, 169.
orange rusts, 168.
powdery mildew, 170.
spur blight, 170.
Black canker, chestnut, 290.
Black chaff, wheat, 32.
Black heart, celery, 258.
Black knot, cherry, 160.
plum, 158.
Black-leg, cabbage, 237.
potato, 193, 319.
Black mold, cabbage, 238.
onion, 234.
spinach, 272.
Black root, radish, 241.
Black root rot, coffee, 305.
tobacco, 273.
Black rot, apple, 113, 331.
cabbage, 237.
grape, 162.
pear, 140.
quince, 143.
rutabaga, 241.
sweet potato, 222, 325.
turnip, 241.
Black speck, rice, 67.
Black spot, cranberry, 171.
elm, 290.
peach, 152.
plum, 158.
rose, 303.
Black streak, horseradish, 240.
Blast, oats, 58.
rice, 66.
Blight, Alternaria, ginseng, 260.
Ascochyta, vetch, 74.
bacterial, alfalfa, 70.
barley, 50.
bean, 226, 326, 327.
lettuce, 264.
lima bean, 264.
loquat, 178.
mulberry, 172.
pea, 266.
sorghum, 69.
soy bean, 75.
walnut, 179.
bacterial blade, timothy, 76.
Botrytis, peony, 302.
tulip, 304.
Coryneum, apricot, 161.

peach, 153.
dahlia, 300.
Endothia, chesthut, 289.
Helminthosporium, wheat, 36.
iris, 301.
Keithia, cedar, 289.
mulberry, 172.
Mycosphaerella, pea, 265.
pear, 138.
pine, 297.
Rhynchosporium, barley, 49.
rye, 42.
Sclerotium, tomato, 220.
Septoria, pea, 268.
spinach, 271.
Blister canker, apple, 125.
Blister rust, currant, 170.
gooseberry, 171.
white pine, 294.
Blossom blight, lilac, 301.
peach, 330.
poppy, 302.
bacterial, magnolia, 291.
Blossom end rot, tomato, 216.
watermelon, 251.
Blotch, apple, 96, 331.
Blue grass, anthracnose, 76.
ergot, 76.
leaf rust, 76.
leaf spot, Scolecotrichum, 76.
Septoria, 76.
powdery mildew, 76.
silver top, 76.
Blue joint grass, ergot, 77.
leaf spot, 77.
rust, 77.
Blue mold rot, apple, 128.
citrus, 174.
pear, 141.
Boll rot, bacterial, cotton, 278.
Diplodia, cotton, 282.
miscellaneous, cotton, 281.
Borax injury, potato, 204.
Botryodiplodia ravenelli, oak, 294.
Botryosphaeria ribis, currant, 170.
Botrytis cinerea, lettuce, 261.
douglasii, sequoia, 297.
sp., artichoke, 252.
cabbage, 239.
cantaloupe, 243.
carnation, 299.
carrot, 255.
currant, 170.
garlic, 260.
gooseberry, 171.
iris, 301.
onion, 233.
peony, 302.
raspberry, 168.
rose, 303.
strawberry, 164.
tulip, 304.
Bottle brush grass, Epichloe typhina, 78.
leaf spot, 78.
Box, Fusarium roseum, 299.
Box elder, canker, 288.
sap rot, 288.
Branch canker, elm, 290.
Bremia lactucae, lettuce, 262.
Bristly foxtail grass, downy mildew, 78,
smut, 78.
Broken stem, rye, 42.
Brome grass, ergot, 77.
leaf spot, 77.
powdery mildew, 77.
rust, leaf, 77.
stem, 77.
scab, 77.
Brown bark spot, apple, 136.
Brown blotch, pear, 142.
Brown leaf blight, oats, 58.
Brown ring spot, tomato, 220.
Brown rot, apple, 128.
apricot, 161.
carrot, 255.
cherry, 160.
citrus, 175.
juneberry, 291.
peach, 144, 330.
pear, 142.
plum, 156.
quince, 144.
Brown spot, corn, 62.
Buckeye rot, tomato, 217.
Buckthorn ; rust, 288.
Bud rot, rose, 303.
Bunt, wheat, 2, 309.
Butternut, spot, 288.

C

Cabbage, black-leg, 237.
black mold, 238.
black rot, 237.

club root, 235.
damping off, 238.
decay, 239.
downy mildew, 238.
drop, 239.
leaf infection, 239.
leaf speck, 239.
leaf spot, 239.
bacterial, 239.
Phoma, 239.
lightning injury, 240.
mottling disease, 239.
nitrate injury, 240.
Pleospora sp., 239.
powdery mildew, 239.
purple spotting, 239.
ring spot, 239.
root knot, 238.
root rot, 240.
slimy soft rot, 238.
tip burn, 240.
undetermined disease, 239.
wilt, 239.
yellows, 236.
Camphor, anthracnose, 289.
canker, 289.
Canary grass, ergot, 78.
rust, leaf, 78.
stripe, 78.
Cane blight, Botryosphaeria,
currant, 170.
Leptosphaeria, blackberry, 170.
raspberry, 167.
rose, 303.
Nectria, currant, 170.
Canker, bark, apple, 136.
Cytospora, maple, 292.
miscellaneous, apple, 136.
Radulum, apple, 137.
Rhabdospora, apple, 137.
scurfy, apple, 136.
Cenangium, pine, 296.
Cytospora, apple, 136.
poplar, 297.
Diplodia, camphor, 289.
flax, 67.
Macrophoma, fig, 177.
Myxosporium, apple, 137.
Nectria, box elder, 288.
oak, 294.
Phoma, dogwood, 290.
Physalospora, sumac, 298.
rose, 304.
Schizophyllum, apple, 137.
Septobasidium, apple, 136.
Sphaeropsis, birch, 288.
Cantaloupe, anthracnose, 242.
downy mildew, 243.
fruit rot, Botrytis, 243.
Fusarium, 243.
gray mold rot, 244.
leaf blight, 245.
Alternaria, 242.
mosaic, 243.
root knot, 245.
soft rot, 245.
southern blight, 243.
tip burn, 245.
wilt, bacterial, 242.
Fusarium, 243.
Carnation, root knot, 299.
rust, 299.
stem rot, Botrytis, 299.
Corticium, 299.
Carrot, brown rot, 255.
leaf spot, 254.
Rhizoctonia, 254.
root knot, 254.
rot, bacterial soft, 254.
Sclerotium, 254.
soft, 255.
storage rot, Botrytis, 255.
Penicillium, 255.
watery soft rot, 254.
Cassava, root rot, Phytophthora, 255.
Rhizoctonia, 255.
Castor bean, root rot, 305.
Catalpa, heart rot, 289.
leaf spot, Macrosporium, 289.
Phyllosticta, 289.
leaf wilt, 289.
sap rot, 289.
wilt, 289.
Cat face, peach, 156.
tomato, 221.
Cauliflower, (see cabbage), 235.
Cedar, blight, 289.
Pestalozzia funerea, 289.
Cedar rust, apple, 331.
Celery, black heart, 258.
crown rot, 258.
early blight, 256.
foot rot, 257.
heart blasting, 259.
heart rot, 258.
late blight, 255.

leaf spot, 258.
Rhizoctonia, 259.
root knot, 259.
root rot, 259.
rust, 259.
stunt, 258.
yellows, 258.
Cenangium ferruginosum, pine, 296.
Center rot, citrus, 175.
Cephalothecium roseum, apple, 135.
maple, 293.
Cercospora angulata, currant, 170.
apii, carrot, 254.
celery, 256.
apii pastinaceae, parsnip, 265.
armoraciae, horseradish, 240.
beticola, beet, 253.
swiss chard, 272.
circumscissa, cherry, 161.
citrullina, watermelon, 251.
cruenta, cowpea, 74.
davisii, sweet clover, 74.
fig, 177.
fraxinites, ash, 288.
gossypina, cotton, 282.
longipes, sugar cane, 287.
mali, apple, 136.
medicaginis, alfalfa, 71.
clover, 73.
nicotianae, tobacco, 273.
personata, peanut, 269.
sequoiae, sequoia, 297.
sp., bean, 232.
lettuce, 263.
pecan, 179.
pepper, 269.
turnip, 242.
viticola, grape, 163.
Cercosporella albo-maculans,
turnip, 242.
persicae, peach, 155.
Cereal and forage crops, 1.
Charcoal rot, sweet potato, 226.
Cherry, bacterial gummosis, 161.
black knot, 160.
brown rot, 160.
die-back, 161.
frost injury, 161.
gummosis, 161.
leaf spot, 159.
nitre injury, 161.
powdery mildew, 160.
root rot, Armillaria, 160.
Clitocybe, 160.
sap rot, 161.
shot hole, 161.
silver leaf, 161.
winter injury, 161.
witches broom, 160.
Chestnut, black canker, 290.
blight, 289.
leaf spot, 290.
Chinese cabbage, leaf spot, 240.
Chlorosis, bean, 232.
pear, 143.
plum, 159.
potato, 205.
Chrysanthemum, leaf blight, 300.
leaf spot, 300.
mosaic, 300.
powdery mildew, 300.
ray blight, 300.
rust, 300.
sooty mold, 300.
Chrysophlyctis endobiotica, potato,
194.
Citrus, anthracnose, 174.
blue mold rot, 174.
brown rot, 175.
center rot, 175.
foot rot, 175.
gummosis, 175.
melanose, 173.
scab, 172.
scaly bark, 175.
stem end rot, 173, 175.
wither tip, 174.
Cladosporium aphidis, salvia, 304.
carpophilum, almond, 161.
apricot, 161.
peach, 150.
plum, 158.
citri, citrus, 172.
cucumerinum, cucumber, 247.
fulvum, tomato, 219.
herbarum citricolum, citrus, 175.
macrocarpum, spinach, 272.
paeoniae, peony, 302.
sp., avocado, 178.
cowpea, 74.
wheat, 37.
Claviceps paspali, paspalum grass, 79.
purpurea, barley, 50.
oats, 58.
rye, 41.
wheat, 35.

sp., blue grasses, 76.
blue joint grass, 77.
brome grass, 77.
canary grass, 78.
fescue grass, 78.
orchard grass, 77.
timothy, 75.
wheat grass, 80.
wild rye, 81.
Clematis, root knot, 300.
Clitocybe, apple, 137.
monadelpha, peach, 155.
sp., cherry, 160.
Clover, anthracnose, 72.
crown rot, 73.
dodder, 73.
leaf spot, Cercospora, 73.
Macrosporium, 73.
Pseudopeziza, 71.
mosaic, 73.
nematode, 72.
powdery mildew, 73.
red leaf, 73.
root rots, 73.
Sclerotinia, 73.
rusts, 72.
sooty spot, 73.
streak, 73.
Club root, cabbage, 235.
kale, 240.
radish, 241.
turnip, 241.
Cob rot, corn, 66.
Coccomyces hiemalis, cherry, 159.
prunophorae, plum, 158.
Coffee, black root rot, 305.
Collar rot, apple, 138.
tomato, 219.
Colletotrichum cereale, barley, 49.
blue grass, 76.
fescue grass, 78.
meadow foxtail grass, 79.
oat grass, 79.
oats, 58.
orchard grass, 77.
panic grass, 79.
rye, 40.
wheat, 33.
wheat grass, 80.
cowpea, 74.
erumpens, rhubarb, 270.
falcatum, sugar cane, 286.
gloeosporioides, citrus, 174.
gossypii, cotton, 329.
lagenarium, cantaloupe, 242.
cucumber, 246
watermelon, 248.
lindemuthianum, bean, 227, 326,327.
nigrum, pepper, 270.
phomoides, tomato, 220.
sp. asparagus, 253.
avocado, 178.
corn, 66.
magnolia, 291.
pepper, 270.
potato, 203.
snapdragon, 304.
spinaciae, spinach, 272.
trifolii, alfalfa, 70.
clover, 72.
Coniosporium sp., corn, 66.
Coniothyrium diplodiella, grape,163.
Corm rot, taro, 272.
Corn, albino, 66.
anthracnose, 66.
bacterial leaf spot, 65.
bacterial wilt, 63.
brown spot, 62.
cob rot, 66.
ear rot, Diplodia, 65.
Fusarium, 60, 317.
Gibberella, 60.
head smut, 65.
leaf blight, 65.
Physoderma, 62, 317.
purple sheath spot, 65.
root rot, bacterial, 65.
Fusarium, 60, 317.
Gibberella, 60.
rust, 64.
leaf, 317.
smut, 59; 317.
stalk rot, Fusarium, 60.
Gibberella, 60.
stem rot, 66.
Corticium vagum, carnation, 299.
vagum solani, beet, 253.
cabbage, 238.
potato, 190.
Coryneum beijerinckii, apricot, 161.
peach, 153.
Cotton, angular leaf spot, 276, 278, 329.
anthracnose, 276, 329.
boll rot, bacterial, 278.
Diplodia, 282.

miscellaneous, 281.
leaf spot, Alternaria, 282.
Cercospora, 282.
miscellaneous, 281.
lightning injury, 282.
malnutrition, 276, 280.
Ozonium omnivorum, 276, 281.
production by states, 275.
Rhizoctonia, 281.
root knot, 276, 279, 329,
root rot, 280.
rust, 276.
sore shin, 282.
wet weather injury, 282.
wilt, 276.
Fusarium, 277, 329.
Covered smut, barley, 42, 313.
oats, 315.
Covered kernel smut, sorghum, 68.
Cowpea, anthracnose, 74.
leaf spot, Amerosporium, 74.
Cercospora, 74.
P hyllosticta, 74.
pod spot, 74.
powdery mildew, 74.
Rhizoctonia sp., 74.
root knot, 74.
root rot, 74.
rust, 74.
streak, 74.
wilt, 74.
Crab grass, leaf spot, 78.
smut, 78.
Cranberry, bitter rot, 171.
black spot, 171.
early rot, 171.
end rot, 171.
red leaf spot, 171.
ripe rot, 171.
Sclerotinia, 171.
Crinkled leaf, pepper, 270.
Cronartium cerebrum, oak, 294.
pine, 296.
comptoniae, scotch pine, 297.
filamentosum, pine, 296.
occidentale, Ribes, 295.
ribicola, currant, 170.
gooseberry, 171.
white pine, 294.
Crop losses, 307.
Crown gall, apple, 127.
beet, 253.
blackberry, 169.
grape, 163.
peach, 153.
pear, 142.
pecan, 179.
plum, 158.
quince, 143.
raspberry, 168.
rose, 303.
walnut, 179.
Crown rot, bacterial, celery, 258.
rhubarb, 271.
Phoma, beet, 253.
Sclerotinia, clover, 73.
radish, 241.
stawberry, 166.
Crown rust, oats, 56, 315.
Crucifers, 235.
Cryptosporella viticola, grape, 163.
Cucumber, angular leaf spot, 247.
anthracnose, 246.
damping off, 248.
downy mildew, 246.
drought injury, 248.
frost injury, 248.
mosaic, 245.
leaf spot, 247.
root knot, 248.
scab, 247.
soft rot, 248.
stem rot, 247.
watery soft rot, 247.
wilt, bacterial, 245.
Fusarium, 248.
Cucurbits, 242.
Curly dwarf, potato, 203.
Curly leaf, sweet potato, 226.
Curly top, beet, 254.
Currant, angular leaf spot, 170.
anthracnose, 170.
blister rust, 170.
cane blight, Botryosphaeria, 170.
Nectria, 170.
die-back, 170.
Gloeosporium ribis, 170.
leaf spot, 170.
rusts, 170.
Cuscuta arvensis, potato, 204.
epithymum, clover, 73.
sp., onion, 235.
spp. alfalfa, 71.
clover, 71.
Cylindrosporium brassicae, Chinese cabbage, 240.

chrysanthemi, chrysanthemum, 300.
quercus, oak, 294.
Cystospora batata, potato, 204.
sweet potato, 223, 325.
chrysoperma, poplar, 297.
sp., apple, 136.
maple, 292.

D

Daedalea confragrosa, willow, 298.
Dahlia, blight, 300.
Damping off, bean, 232.
cabbage, 238.
cucumber, 248.
spinach, 272.
tobacco, 273.
tomato, 220.
Dandelion, powdery mildew, 305.
rust, 305.
Date, leaf smut, 177.
leaf spot, 177.
Dead arm, grape, 163.
Decay, cabbage, 239.
Dewberry (See blackberry), 168.
Diaporthe batatatis, sweet potato, 224.
phaseolorum, lima bean, 264.
Didymellina iridis, iris, 301.
Die-back, Austrian pine, 297.
cherry, 161.
currant, 170.
gooseberry, 171.
peach, 155.
plum, 158.
Dimerosporium collinsii, Juneberry, 291.
Diplocarpon rosae, rose, 303.
Diplodia longispora, oak, 294.
sp., Austrian pine, 297.
beet, 254.
camphor, 289.
citrus, 173, 175.
corn, 65.
cotton, 282.
tomato, 220.
watermelon, 250.
tubericola, sweet potato, 225.
Diplodina medicaginis, alfalfa, 71.
Dodder, alfalfa, 71.
clover, 73.
onion, 235.
potato, 204.
Dogwood, canker, 290.
Phyllosticta corni, 290.
powdery mildew, 290.
Dothichiza populea, poplar, 297.
Dothidella ulmi, elm, 290.
Dothiorella quercina, oak, 294.
Double blossom, blackberry, 170.
Downy mildew, alfalfa, 70.
bristly foxtail grass, 78.
cabbage, 238.
cantaloupe, 243.
cucumber, 246.
geranium, 300.
grape, 163.
Lepidium epatalum, 305.
lettuce, 262.
lima bean, 264.
onion, 233.
pea, 268.
spinach, 271.
squash, 248.
sunflower, 304.
turnip, 241.
vetch, 74.
Drop, bean, 231.
cabbage, 239.
lettuce, 261.
plum, 159.
Dropsy, geranium, 300.
Drought injury, cucumber, 248.
pear, 143.
strawberry, 166.
Drought spot, apple, 132.
plum, 159.
Dry rot, Diaporthe, sweet potato, 224.
Dwarfing, asparagus, 253.
potato, 205.

E

Early blight, celery, 256.
potato, 187, 319.
tomato, 210, 323.
Early rot, cranberry, 171.
Ear rot, Diplodia, corn, 65.
Fusarium, corn, 60, 317.
Gibberella, corn, 60.
Eggplant, anthracnose, 260.
fruit rot, 259.
mosaic, 260.
Rhizoctonia, 260.
root knot, 260.

southern blight, 260.
wilt, 260.
bacterial, 259.
Fusarium, 260.
Verticillium, 260.
Elder, powdery mildew, 290.
rust, 290.
Elm, black spot, 290.
branch canker, 290.
leaf spot, 290.
Gnomonia, 290.
multiple bud, 290.
root rot, 290.
Endothia parasitica, chestnut, 289.
End rot, cranberry, 171.
Epichloe typhina, bottle brush grass, 78.
reed grass, 79.
wild rye, 81
Epicoccum sphaerosporium, rye, 42.
Ergot, barley, 50.
blue grass, 76.
blue joint grass, 77.
brome grass, 77.
canary grass, 78.
fescue grass, 78.
oats, 58.
orchard grass, 77.
paspalum grass, 79.
rye, 41.
timothy, 75.
wheat, 35.
wheat grass, 80.
wild rye, 81.
Erysiphe cichoracearum, aster, 299.
chrysanthemum, 300.
golden glow, 301.
goldenrod, 300.
phlox, 302.
sunflower, 304.
verbena, 305.
graminis, barley, 50.
blue grass, 76.
brome grass, 77.
oats, 58.
orchard grass, 77.
red top, 76.
rye, 41.
timothy, 75.
wheat, 35.
wheat grass, 80.
wild oats, 81.
wild rye, 81.
martii, clover, 73.
polygoni, bean, 230.
cabbage, 239.
clover, 73.
cowpea, 74.
larkspur, 301.
lima bean, 265.
pea, 268.
rutabaga, 241.
sweet pea, 304.
turnip, 241.
Evonymus, leaf spot, 300.
powdery mildew, 300.
Exoascus cerasi, cherry, 160.
deformans, peach, 149, 330.
pruni, plum, 157.
Exobasidium vaccinii, cranberry, 171.
Exosporium concentricum, evonymus, 300.
privet, 302.
palmivorum, date, 177.

F

Fabraea maculata, pear, 142.
quince, 143.
Failure of blossom to set, pear, 143.
Failure to set, tomato, 221.
Fall frost injury, apple, 133.
False stripe, barley, 50.
Fescue grass, anthracnose, 78.
ergot, 78.
leaf spot, 78.
stem rust, 78.
Fields small grain inspected, 2.
Fig, anthracnose, 177.
canker, 177.
leaf blight, 177.
leaf spot, 177.
rust, 177.
Fire blight, apple, 115, 332.
plum, 159.
quince, 143.
Flag smut, wheat, 13.
Flax, canker, 67.
rust, 68.
wilt, 67.
Fly speck, apple, 122.
Fomes everhartii, oak, 294.
fraxinophilus, plum, 158.
Foot rot, barley, 50.
celery, 257.
citrus, 175.

oats, 58
sweet potato, 222, 325.
wheat, 14.
Forage crops, 69.
Forest trees, 288.
Freckle, banana, 178.
Freezing injury, apple, 133.
Frost blister, rose, 303.
Frost injury, alfalfa, 71.
barley, 50.
cherry, 161.
cucumber, 248.
lilac, 302.
oats, 58.
pea, 269.
peach, 155.
plum, 159.
spinach, 272.
strawberry, 166.
wheat, 37.
Frosty mildew, peach, 155.
Fruit crops, 82.
Fruit rot, Alternaria, apple, 135.
pepper, 269.
Botrytis, cantaloupe, 243.
raspberry, 168.
Fusarium, cantaloupe, 243.
pepper, 270.
Phomopsis, eggplant, 259.
strawberry, 166.
Thielaviopsis, pineapple, 176.
Fruit spot, apple, 121.
apricot, 161.
avocado, 178.
Fumago sp., chrysanthemum, 300.
Fusarium annuum,pepper, 270.
batatatis, sweet potato, 222, 325.
bean, 230.
conglutinans, cabbage, 236.
kale, 240.
cubense inodoratum, banana, 178.
hyperoxysporum, sweet potato, 222, 325.
lini, flax, 67.
lycopersici, tomato, 207, 323.
malli, onion, 234.
martii phaseoli, bean, 230.
niveum, cantaloupe, 243.
cucumber, 248.
watermelon, 251.
orthoceras, tomato, 214.
oxysporum, potato, 189, 319.
tomato, 214.
pea, 267.
platanoidis, maple, 293.
radicicola, potato, 199.
roseum, box, 299.
rubi, blackberry, 170.
sp., alfalfa, 71.
asparagus, 253.
aster, 299.
barley, 314.
bean, 230.
brome grass, 77.
cabbage, 239.
cantaloupe, 243.
corn, 317.
cowpea, 74.
eggplant, 260.
elm, 290.
lettuce, 263.
mustard, 241.
onion, 235.
orchard grass, 77.
pepper, 270.
rye, 311
spinach, 271.
squash, 248.
sweet clover, 74.
sweet pea, 304.
timothy, 75.
wheat, 309.
wheat grass, 80.
spp., beet, 254.
corn, 60.
lima bean, 265.
potato, 199.
tomato, 214, 323.
tabacivorum, tobacco, 273.
trichothecioides, potato, 199,
vasinfectum, cotton, 277, 329.
Fusicladium effusum, pecan, 178.
radiosum, poplar, 297.
Fusicoccum putrefaciens, cranberry,171.

G

Garden beet (see beet), 253.
Garlic, Botrytis sp., 260.
Geranium, downy mildew, 300.
dropsy, 300.
leaf spot, 300.
powdery mildew, 300.
Rhizoctonia, 300.
rust, 300.
Gibberella saubinetii, barley, 48.

oats, 57.
rye, 39.
wheat, 21.
spp. corn, 60.
Ginseng, blight, 260.
Rhizoctonia sp., 260.
Gloeosporium ampelophagum, grape, 163.
apocryptum, maple, 291, 293.
camphorae, camphor, 289.
caryae, hickory, 290.
caulivorum, clover, 72.
fagi, beech, 288.
liriodendri, tulip tree, 298.
melongena, eggplant, 260.
piperatum, pepper, 270.
ribis, currant, 170.
rosae, rose, 303.
trifolii, clover, 72.
Glomerella cingulata, apple, 91, 331.
fig, 177.
grape, 163.
pecan, 179.
privet, 302.
cingulata vaccinii, cranberry, 171.
gossypii, cotton, 276.
Glume blotch, wheat, 34.
Gnomonia leptostyla, butternut, 288.
ulmea, elm, 290.
veneta, oak, 293, 294.
sycamore, 298.
Golden glow, powdery mildew, 301.
Goldenrod, powdery mildew, 300.
rust, 301.
Gooseberry, anthracnose, 171.
blister rust, 171.
die-back, 171.
leaf spot, 171.
powdery mildew, 171.
rusts, 171.
sun scald, 171.
Grand Rapids disease, tomato, 220.
Grape, anthracnose, 163.
black rot, 162.
crown gall, 163.
dead arm, 163.
downy mildew, 163.
leaf spot, 163.
lightning injury, 163.
powdery mildew, 163.
ripe rot, 163.
root rot, 163.
white rot, 163.
Graphiola phoenicis, date, 177.
Grasses, 75.
Gray mold rot, cantaloupe, 244.
lettuce, 261.
strawberry, 164.
Green smut, rice, 67.
Growth cracks, tomato, 221.
Guignardia aesculi, horse-chestnut, 291.
bidwellii, Ampelopsis sp., 299.
vaccinii, cranberry, 171.
Gummosis, cherry, 161.
citrus, 175.
plum, 159.
Gymnoconia interstitialis, blackberry, 168.
raspberry, 168.
Gymnosporangium clavariaeforme, hawthorn, 290.
quince, 144.
clavipes, hawthorn, 290.
quince, 144.
cornutum, mountain ash, 288.
germinale, quince, 144.
globosum, hawthorn, 290.
Juniperi-virginianae, apple, 103, 331.
hawthorn, 290.
sp., hawthorn, 290.
spp., juniper, 291.

H

Hail injury, apple, 134.
Halo leaf blight, oats, 58.
Hawthorn, rust, 290.
Head smut, corn, 65.
rye, 41.
sorghum, 69.
Heart blasting, celery, 259.
Heart rot, bacterial, beet, 254.
celery, 258.
catalpa, 289.
plum, 158.
white oak, 294.
Helminthosporium avenae-sativae, oats, 58.
gramineum, barley, 45, 313.
inconspicuum, corn, 65.
sacchari, sugar cane, 287.
sativum, barley, 49.
sp., brome grass, 77.
fescue grass, 78.
rye, 42.

spp., wheat, 36.
teres, barley, 49.
Heterodera radicicola, alfalfa, 71.
bean, 231.
beet, 253.
begonia, 299.
cabbage, 238.
cantaloupe, 245.
carnation, 299.
carrot, 254.
celery, 259.
clematis, 300.
cotton, 276, 279, 329,
cowpea, 74.
cucumber, 248.
eggplant, 260.
lettuce, 264.
lima bean, 265.
okra, 265.
onion, 235.
pea, 269.
peach, 155.
pepper, 270.
potato, 200.
sweet potato, 225.
tobacco, 273.
tomato, 220.
turnip, 242.
watermelon, 252.
schachtii, beet, 254.
sp., sugar cane, 286.
spp., violet, 305.
Heterosporium variabile, spinach, 272.
Hickory, anthracnose, 290.
leaf mildew, 290.
Hollow stalk, tobacco, 273.
Holly, leaf spot, 301.
Hollyhock, root rot, 301.
Honey locust, powdery mildew, 291.
Honeysuckle, powdery mildew, 301.
Hopper burn, potato, 200.
Horse bean, rust, 260.
sun scald, 261.
Horse-chestnut, leaf blotch, 291.
Horseradish, black streak, 240.
leaf spot, Alternaria, 240.
Cercospora, 240.
root rot, bacterial, 240.
Thielavia, 240.
white rust, 240.
Hydrangea, leaf spot, 301.

I

Internal browning, lettuce, 264.
Internal brown spot, potato, 204.
Iris, blight, 301.
leaf spot, 301.
rot, 301.
Isariopsis griseola, bean, 232.
Ivy, English, leaf spot, 301.

J

Java black rot, sweet potato, 225.
Jelly end rot, potato, 199.
Jonathan spot, apple, 131.
Juneberry, brown rot, 291.
leaf spot, 291.
Juniper, rust, 291.

K

Kale, club root, 240.
Rhizoctonia, 240.
yellows, 240.
Kalmia, leaf spot, 301.
Keithia thujina, cedar, 289.
Kernel mold, almond, 161.
Kunkelia nitens, blackberry, 168.
raspberry, 168.

L

Lactuca pulchella, rust, 305.
Larch, Valsa abietis, 291.
Larkspur, powdery mildew, 301.
Lasiodiplodia triflorae, plum, 158.
Late blight, celery, 255.
potato, 182, 319.
tomato, 212.
Late red spotting, apple, 135.
Leaf blight, Alternaria, cantaloupe, 242
ash, 288.
blackberry, 170.
cantaloupe, 245.
Cercospora, beet, 253.
parsnip, 265.
Coccomyces, plum, 158.
Cylindrosporium, chrysanthemum, 300.
Fabraea, quince, 143.
Gnomonia, oak, 294.
Helminthosporium, corn, 65.
Phoma, strawberry, 166.
Rhizoctonia, fig, 177.

Scolecotrichum, timothy, 75.
Leaf blister, oak, 294.
Leaf blotch, horse-chestnut, 291.
peony, 302.
strawberry, 166.
Leaf cast, pine, 296.
Leaf curl, peach, 149, 330.
plum, 158.
Leaf fall, pepper, 270.
Leaf infection, cabbage, 239.
Leaf mildew, hickory, 290.
Leaf mold, tomato, 219.
Leaf roll, potato, 203, 321.
Leaf rot, watermelon, 251.
Leaf rust, barley, 47, 313
Bermuda grass, 77.
blue grass, 76.
brome grass, 77.
canary grass, 78.
corn, 317.
rye, 38, 311.
squirrel tail grass, 80.
wheat, 19, 309.
wheat grass, 80.
wild rye, 81.
willow, 298.
Leaf scorch, maple, 292.
pea, 269.
Leaf smut, date, 177.
timothy, 75.
Leaf speck, cabbage, 239.
Leaf spot, Alternaria, beet, 254.
cotton, 282.
cucumber, 247.
horseradish, 240.
lettuce, 263.
pepper, 269.
rhubarb, 270.
turnip, 242.
watermelon, 251.
Amerosporium, cowpea, 74.
apricot, 161.
Ascochyta, rhubarb, 270.
bacterial, cabbage, 239.
celery, 258.
corn, 65.
geranium, 300.
lettuce, 264.
velvet bean, 75.
bean, 232.
begonia, 299.
black, wheat grass, 80.
black-specked, maple, 292.
Botrytis, tulip. 304.
cabbage, 239.
Cercospora, alfalfa, 71.
apple, 136.
ash, 288.
bean, 232.
carrot, 254.
clover, 73.
cotton, 282.
cowpea, 74.
fig, 177.
grape, 163.
horseradish, 240.
lettuce, 263.
peanut, 269.
pecan, 179.
pepper, 269.
sugar cane, 287.
sweet clover, 74.
swiss chard, 272.
tobacco, 242.
turnip, 273.
Coccomyces, cherry, 159.
Cylindrosporium, Chinese cabbage, 240.
Didymellina, iris, 301.
Dimerosporium, juneberry, 291.
elm, 290.
English ivy, 301.
Exosporium, date, 177.
evonymus, 300.
privet, 302.
Gloeosporium, tulip tree, 298.
Gnomonia, elm, 290.
Guignardia, Ampelopsis sp., 299.
Helminthosporium, brome grass, 77.
fescue grass, 78.
sugar cane, 287.
Heterosporium, spinach, 272.
Leptosphaeria, sugar cane, 286.
Macrosporium, catalpa, 289.
clover, 73.
onion, 234.
turnip, 242.
Marssonia, chestnut, 290.
poplar, 297.
walnut, 298.
miscellaneous, apple, 136.
cotton, 281.
Mycosphaerella, currant, 170.
gooseberry, 171.
pear, 143.
strawberry, 164.

peach, 155.
Phoma, beet, 253.
cabbage, 239.
Phyllachora, blue joint grass, 77.
bottle brush grass, 78.
marsh grass, 79.
wild rye, 81.
Phyllosticta, catalpa, 289.
cowpea, 74.
holly, 301.
kalmia, 301.
lilac, 302.
maple, 292.
pear, 143.
pepper, 270.
rhubarb, 270.
rose, 303.
sumac, 298.
sweet potato, 225.
tulip tree, 298.
violet, 305.
Piricularia, crab grass, 78.
Pseudopeziza, alfalfa, 69.
clover, 71.
Ramularia, lettuce, 263.
red, cranberry, 171.
rutabaga, 241.
Scolecotrichum, blue grass, 76.
squirrel tail grass, 80.
Septoria, blackberry, 169.
black locust, 291.
blue grass, 76.
chrysanthemum, 300.
hydrangea, 301.
raspberry, 168.
squirrel tail grass, 80.
sumac, 298.
sweet potato, 225.
tomato, 205, 323.
wheat, 34.
wheat grass, 80.
wild rye, 81.
soy bean, 75.
Spegazzinia, magnolia, 291.
Leaf wilt, catalpa, 289.
Leak, potato, 204.
Legumes, 69.
Lepidium epatalum, downy mildew, 305.
Leptosphaeria coniothyrium, blackberry, 170.
raspberry, 167.
rose, 303.
sacchari, sugar cane, 286.
Leptothyrium pomi, apple, 122.
pear, 142.
Lettuce, bacterial blight, 264.
downy mildew, 262.
drop, 261.
internal browning, 264.
leaf spot, Alternaria, 263.
bacterial, 264.
Cercospora, 263.
Ramularia, 263.
root knot, 264.
rosette, 262.
rots, bacterial, 264.
gray mold, 261.
slimy soft, 263.
watery soft, 261.
stem rot, 262.
tip burn, 262.
wilt, 263.
Lightning injury, cabbage, 240.
cotton, 282.
grape, 163.
potato, 205.
tomato, 221.
Lilac, blossom blight, 301.
frost injury, 302.
leaf spot, 302.
powdery mildew, 302.
Lima bean, bacterial blight, 264.
downy mildew, 264.
mosaic, 265.
pod blight, 264.
powdery mildew, 265.
root knot, 265.
root rot, Fusarium, 265.
Rhizoctonia, 265.
rust, 264.
Little peach, peach, 152.
Locust (black), leaf spot, 291
Loganberry, (see blackberry), 168.
Loose kernel smut, sorghum, 68.
Loose smut, barley, 44, 313.
oats, 315.
wheat, 10, 309.
Lophodermium pinastri, pine, 296.
Loquat, blight, 178.
Losses from loose smut, wheat, 12.

M

Macrophoma, fig, 177.
Macrosporium, catalpae, catalpa, 289.
herculeum, turnip, 242.

sarciniforme, clover, 73.
solani, potato, 187, 319.
tomato, 219, 323.
sp., onion, 234.
spp., tomato, 210.
Magnolia, anthracnose, 291.
blossom blight, 291.
leaf spot, 291.
Malformation, asparagus, 253.
Malnutrition, cotton, 276, 280.
potato, 203.
Maple, anthracnose, 291.
bark canker, 292.
black specked leaf spot, 292.
Cephalothecium roseum, 293.
Fusarium platanoidis, 293.
Gloeosporium apocryptum, 293.
leaf scorch, 292.
leaf spot, 292.
Microstroma sp., 293.
mildew, 293.
Nectria cinnabarina, 293.
Phyllosticta acericola, 293.
aceris, 293.
Sclerotium sp., 293.
tar spot, 293.
winter injury, 292.
Marasmius plicatus, sugar cane, 285.
Marsh grass, leaf spot, 79.
Marssonia castagnei, poplar, 297.
juglandis, walnut, 298.
ochroleuca, chestnut, 290.
populi, poplar, 297.
Meadow foxtail grass, anthracnose, 79.
Measles, apple, 137.
Melampsora bigelowii, willow, 298.
lini, flax, 68.
salicis albae, willow, 298.
spp., poplar, 297.
willow, 298.
Melanconia modonia, chestnut, 290.
Melanconium betulinum, birch, 288.
sacchari, sugar cane, 287.
Melanose, citrus, 173.
Microsphaera alni, honeysuckle, 301.
lilac, 302.
oak, 294.
pecan, 178.
evonymi, evonymus, 300.
grossulariae, elder, 290.
Microstroma juglandis, hickory, 290.
sp., beech, 288.
maple, 293.
Mildew, Jerusalem artichoke, 252.
maple, 293.
oak, 294.
pea, 268.
Millet (European), smut, 76.
Millet (Italian), smut, 76.
Miscellaneous crops, 252.
Miscellaneous fruit rots and spots, apple, 135.
Miscellaneous plants, 305.
Mistletoe, pine, 296.
Mold, pepper, 269.
Monilochaetes infuscans, sweet potato, 223.
Mosaic, bean, 229, 326, 327.
beet, 254.
cantaloupe, 243.
chrysanthemum, 300.
clover, 73.
cucumber, 245.
eggplant, 260.
lima bean, 265.
peony, 302.
pepper, 270.
potato, 201, 321.
squash, 248.
sugar cane, 283.
sweet pea, 304.
sweet potato, 226.
tobacco, 273.
tomato, 211.
Mottling disease, cabbage, 239.
Mountain ash, rust, 288.
Mucor sp., beet, 254.
Mulberry, bacterial blight, 172.
blight, 172.
root rot, 172.
Multiple bud, elm, 290.
Mustard, white rust, 240.
wilt, 241.
Mycosphaerella brassicicola, cabbage, 239.
citrullina, watermelon, 251.
fragariae, strawberry, 164.
grossulariae, currant, 170.
gooseberry, 171.
pinodes, pea, 265.
rubina, blackberry, 170.
raspberry, 167.
sentina (Septoria pyricola), pear, 143.
Myxosporium corticolum, apple, 137.

N

Nailhead spot, tomato, 210.
Neck rot, onion, 233.
Nectria cinnabarina, box elder, 288.
elm, 290.
maple, 293.
oak, 294.
sp., currant, 170.
Nematode, clover, 72.
strawberry, 165.
wheat, 27.
Neofabraea malicorticis, apple, 126.
Net blotch, barley, 49.
Nettle, rust, 306.
Nigredo pedatata, violet, 305.
Nitrate injury, cabbage, 240.
Niter injury, cherry, 161.
Nummularia discreta, apple, 125.
Nuts, 178.

O

Oak, anthracnose, 293.
canker, 294.
Diplodia longispora, 294.
Dothiorella quercina, 294.
leaf blight, 294.
leaf blister, 294.
mildew, 294.
root rot, brown-checked, 294.
shoe string, 294.
white, 294.
rust, 294.
shot hole, 294.
soft heartwood rot, 294.
twig blight, 294.
white heart rot, 294.
Oat grass, anthracnose, 79.
Oats, Alternaria sp., 58.
anthracnose, 58.
blast (sterility), 58.
brown leaf blight, 58.
covered smut, 315.
ergot, 58.
foot rot, 58.
frost injury, 58.
halo leaf blight, 58.
loose smut, 315.
powdery mildew, 58.
red leaf, 58.
rust, crown, 56, 315.
stem, 54, 315.
scab (blight), 57.
Septoria sp., 58.
smut, 50.
Oedema, tomato, 221.
Okra, root knot, 265.
root rot, 265.
Verticillium wilt, 265.
Onion, black mold, 234.
dodder, 235.
downy mildew, 233.
leaf spot, 234.
neck rot, 233.
pink rot, 234.
Rhizoctonia, 235.
root knot, 235.
rust, 235.
smudge, 234.
smut, 232.
tip burn, 235.
watery soft rot, 235.
Orange rusts, blackberry, 168.
raspberry, 168.
Orchard grass, anthracnose, 77.
ergot, 77.
powdery mildew, 77.
scab, 77.
stem rust, 77.
Ornamentals, 299.
Orobanche ludoviciana, tobacco, 273.
Ozonium omnivorum, alfalfa, 71.
apple, 137.
bean, 231.
castor bean, 305.
cotton, 276, 280, 281.
cowpea, 74.
elm, 290.
grape, 163.
hollyhock, 301.
mulberry, 172.
okra, 265.
peanut, 269.
pear, 143.
privet, 302.
sweet potato, 225.
umbrella tree, 298.

P

Panic grass, anthracnose, 79.
rust, 79.
Parsnip, leaf blight, 265.
Paspalum grass, ergot, 79.
Pea, blight, bacterial, 266.

Mycosphaerella, 265.
Septoria, 268.
downy mildew, 268.
frost injury, 269.
leaf scorch, 269.
mildew, 268.
pod rot, 268.
root knot, 269.
root rot, Fusarium, 267.
Pythium, 267.
Rhizoctonia, 267.
rust, 268.
Peach, black mold rot, 154.
black spot, 152.
blossom blight, 330.
brown rot, 144, 330
cat face, 156.
Coryneum blight, 153.
crown gall, 153.
die-back, 155.
frost injury, 155.
frosty mildew, 155.
leaf curl, 149, 330.
leaf spot, 155.
little peach, 152.
powdery mildew, 154.
root knot, 155.
root rot, Armillaria, 155.
Clitocybe, 155.
rosette, 152.
rust, 155.
scab, 150.
split pit, 155.
spray injury, 155.
water injury, 155.
winter injury, 156.
yellows, 152.
Peanut, leaf spot, 269.
root rot, Ozonium, 269.
Sclerotium, 269.
stem rot, 269.
wilt, 269.
Pear, Armillaria mellea, 143.
black rot, 140.
blight, 138.
brown blotch, 142.
brown rot, 142.
chlorosis, 143.
crown gall, 142.
drought injury, 143.
Fabraea maculata, 142.
failure of blossom to set, 143.
leaf spot, Mycosphaerella, 143.
Phyllosticta, 143.
Ozonium omnivorum, 143.
powdery mildew, 143.
rot, blue mold, 141.
Phytophthora, 142.
Rhizopus soft, 141.
scab, 140.
sooty blotch, 142.
winter injury, 143.
Pecan, anthracnose, 179.
crown gall, 179.
leaf spot, 179.
powdery mildew, 178.
rosette, 179.
scab, 178.
Penicillium expansum, apple, 128.
pear, 141.
sp., almond, 161.
beet, 254.
carrot, 255.
citrus, 174.
Peony, blight, 302.
leaf blotch, 302.
mosaic, 302.
Pepper, anthracnose, 270.
Colletotrichum sp., 270.
crinkled leaf, 270.
fruit rot, 270.
Alternaria, 269.
leaf fall, 270.
leaf spot, Alternaria, 269.
Cercospora, 269.
Phyllosticta, 270.
Macrosporium sp., 270.
mold, 269.
mosaic, 270.
root knot, 270.
root rot, 269.
spotting, 270.
sun scald, 270.
wilt, bacterial, 269.
Fusarium, 270.
Peronospora effusa, spinach, 271.
parasitica, cabbage, 238.
Lepidium epatalum, 305.
turnip, 241.
schleideni, onion, 233.
trifoliorum, alfalfa, 70.
viciae, pea, 268.
vetch, 74.
Pestalozzia funerea, cedar, 289.
Phlox, powdery mildew, 302.
Phoma apiicola, celery, 259.

beet, 253.
betae, beet, 253.
cabbage, 239.
corni, dogwood, 290.
destructiva, tomato, 217.
geniculata, Scotch pine, 297.
landeghemiae, syringa, 304.
lingam, cabbage, 237.
musae, banana, 178.
obscurans, strawberry, 166.
pomi, apple, 121.
populi, poplar, 297.
sp., alfalfa, 71.
bean, 232.
Phomopsis citri, citrus, 173.
vexans, eggplant, 259.
Phragmidium imitans, raspberry, 168.
spp., rose, 303.
Phyllachora graminis, blue joint grass, 77.
bottle brush grass, 78.
marsh grass, 79.
wheat grass, 80.
wild rye, 81.
pomigena, apple, 122.
trifolii, clover, 73.
Phyllactinia corylea, dogwood, 290.
Phyllosticta acericola, maple, 292, 293.
acerîs, maple, 293.
batatas, sweet potato, 225.
betulina, birch, 288.
catalpae, catalpa, 289.
corni, dogwood, 290.
fagicola, beech, 288.
halstedii, lilac, 302.
liriodendrica, tulip tree, 298.
minima, maple, 292.
opaca, holly, 301.
phaseolina, cowpea, 74.
pyrina, pear, 143.
rosicola, rose, 303.
solitaria, apple, 96, 331.
sp., kalmia, 301.
pepper, 270.
rhubarb, 270.
sumac, 298.
spp., maple, 292.
violae, violet, 305.
Physalospora cydoniae, apple, 113, 331.
Austrian pine, 297.
pear, 140.
quince, 143.
sumac, 298.
Physoderma zeae-maydis, corn, 62, 317.
Physopella fici, fig, 177.
Phytophthora cactorum, apple, 135.
pear, 142.
colocasiae, taro, 272.
infestans, potato, 182, 319.
tomato, 212.
phaseoli, lima bean, 264.
sp., cassava, 255.
terrestria, citrus, 175.
pea, 268.
tomato, 217.
tomato, 221.
Pileolaria toxicodendron, sumac, 298.
Pineapple disease, sugar cane, 286.
Pineapple, fruit rot, 176.
Pine, blight, 297.
canker, 296.
leaf cast, 296.
mistletoe, 296.
root rot, 297.
rusts, 296.
Pine, Austrian, die-back, 297.
twig blight, 297.
winter injury, 297.
Pine, Scotch, Phoma geniculata, 297.
rust, 297.
Pine, white, blister rust, 294.
Pink rot, apple, 135.
onion, 234.
Pinon blister rust, Ribes, 295.
Piricularia grisea, crab grass, 78.
oryzae, rice, 66.
Pit (see soil rot), potato, 204.
Plasmodiophora brassicae, cabbage, 235.
kale, 240.
radish, 241.
turnip, 241.
Plasmopara geranii, geranium, 300.
halstedii, Jerusalem artichoke, 252.
sunflower, 304.
viticola, grape, 163.
Plectodiscella veneta, blackberry, 169.
raspberry, 166.
Plenodomus destruens, sweet potato, 222, 325.
Pleospora sp., cabbage, 239.
Plowrightia morbosa, cherry, 160.
plum, 158.
Plum, black knot, 158.
black spot, 158.
brown rot, 156.

chlorosis, 159.
crown gall, 158.
die-back, 158.
drop, 159.
drought spot, 159.
fire blight, 159.
frost injury, 159.
gummosis, 159.
heart rot, 158.
leaf blight, 158.
leaf curl, 158.
pockets, 157.
powdery mildew, 158.
rust, 158.
scab, 158.
silver leaf, 158.
wilt, 158.
winter injury, 159.
yellows, 159.
Pockets, plum, 157.
Pod blight, bean, 232.
lima bean, 264.
Podosphaera leucotricha, apple, 118.
pear, 143.
quince, 144.
oxyacanthae, cherry, 160.
plum, 158.
Pod rot, pea, 268.
Thielavia, sweet pea, 304.
Pod spot, cowpea, 74.
Polyporus dryadeus, oak, 294.
obtusus, oak, 294.
sulphureus, oak, 294.
Polystictus hirsutus, box elder, 288.
versicolor, catalpa, 289.
Pome fruits, 84.
Poplar, canker, 297.
Fusicladium radiosum, 297.
leaf spot, 297.
Phoma populi, 297.
powdery mildew, 297.
rust, 297.
twig blight, 297.
Poppy, blossom blight, 302.
Porcupine grass, smut, 79.
Potash hunger, tobacco, 273.
Potato, anthracnose, 203.
black-leg, 193, 319.
borax injury, 204.
chlorosis, 205.
curly dwarf, 203.
dodder, 204.
dwarfing, 205.
early blight, 187, 319.
hopper burn, 200.
internal brown spot, 204.
jelly end rot, 199.
late blight, 182, 319.
leaf roll, 203, 321.
leak, 204.
lightning injury, 205.
malnutrition, 203.
mosaic, 201, 321.
pit (see soil rot), 204.
powdery dry rot, 199.
powdery scab, 204.
pox (see soil rot), 204.
Rhizoctonia, 319.
root knot, 200.
scab, 192.
scurf, 190.
soil rot, 204.
southern blight, 204.
spindling sprout, 204.
spray injury, 205.
stem rot, 190.
Armillaria, 204.
streak, 205.
sun scald, 205.
tip burn, 200, 321.
tuber rot, Armillaria, 204.
Fusarium, 199.
violet root rot, 204.
wart, 194.
wilt, bacterial, 190.
Fusarium, 189, 319.
Verticillium, 190.
Powdery dry rot, potato, 199.
Powdery mildew, Ampelopsis sp., 299.
apple, 118.
aster, 299.
barley, 50.
bean, 230.
blackberry, 170.
blue grass, 76.
brome grass, 77.
cabbage, 239.
cherry, 160.
chrysanthemum, 300.
clover, 73.
cowpea, 74.
dandelion, 305.
dogwood, 290.
elder, 290.
evonymus, 300.
geranium, 300.

golden glow, 301.
goldenrod, 300.
gooseberry, 171.
grape, 163.
honey locust, 291.
honeysuckle, 301.
larkspur, 301.
lilac, 302.
lima bean 265.
oats, 58.
orchard grass, 77.
peach, 154.
pear, 143.
pecan, 178.
phlox, 302.
plum, 158.
poplar, 297.
quince, 144.
raspberry, 168.
red top, 76.
rose, 302.
rutabaga, 241.
rye, 41.
strawberry, 165.
sunflower, 304.
sweet pea, 304.
timothy, 75.
turnip, 241.
verbena, 305.
wheat, 35.
wheat grass, 80.
wild oats, 81.
wild rye, 81.
willow, 298.
Powdery scab, potato, 204.
Pox, potato (see soil rot), 204:
sweet potato, 325.
Privet, anthracnose, 302.
leaf spot, 302.
root rot, 302.
winter injury, 302.
Production of cotton by states, 275.
Prune (see plum), 156.
Pseudomonas avenae, oats, 58.
Pseudoperonospora cubensis, cantaloupe, 243.
cucumber, 246.
squash, 248.
Pseudopeziza medicaginis, alfalfa, 69.
ribis, currant, 170.
gooseberry, 171.
trifolii, clover, 71.
Puccinia antirrhini, snapdragon, 304.
asparagi, asparagus, 252.
bolleyana, elder, 290.
caricis, nettle, 306.
caricis solidaginis, goldenrod, 301.
chrysanthemi, chrysanthemum, 300.
clematidis, wheat grass, 80.
coronata, buckthorn, 288.
oats, 56, 315.
cynodontis, Bermuda grass, 77.
dispersa, rye, 38, 311.
emaculata, panic grass, 79.
fraxinata, ash, 288.
glumarum, barley, 50.
canary grass, 78.
rye grass, 80.
wheat, 21.
graminis, barley, 46, 314.
brome grass, 77.
fescue grass, 78.
oats, 54, 315.
orchard grass, 77.
red top, 76.
rye, 37, 311.
rye grass, 80.
squirrel tail grass, 80.
wheat, 15, 309.
wheat grass, 81.
wild oats, 81.
wild rye, 81.
helianthi, sunflower, 304.
hemisphaerica, Lactuca pulchella, 305.
majanthae, canary grass, 78.
panica, panic grass, 79.
phlei-pratensis, timothy, 75.
poarum, blue grass, 76.
porri, onion, 235.
pruni-spinosae, peach, 155.
plum, 158.
simplex, barley, 47, 313.
sorghi, corn, 64, 137.
sp., Bermuda grass, 77.
blue joint grass, 77.
brome grass, 77.
sorghum, 69.
squirrel tail grass, 80.
wild rye, 81.
subnitens, salt grass, 80.
spinach, 272.
taraxaci, dandelion, 305.
triticina, wheat, 19, 309.
violae, violet, 305.

Purple leaf disease, beet, 254.
Purple sheath spot, corn, 65.
Purple spotting, cabbage, 239.
Pyrenopeziza medicaginis, alfalfa, 69.
Pythiacystis citrophthora, citrus, 175.
Pythium de baryanum, corn, 66.
cucumber, 248.
spinach, 272.
taro, 272.
tobacco, 273.
pea, 267.
potato, 204.
sp., bean, 232.
tomato, 220.

Q

Quince, black rot, 143.
brown rot, 144.
crown gall, 143.
fire blight, 143.
leaf blight, 143.
powdery mildew, 144.
rusts, 144.

R

Radish, black root, 241.
club root, 241.
crown rot, 241.
scab, 241.
white rust, 241.
Radulum aterrinum, apple, 137.
Rain injury, tomato, 221.
Ramularia sp., lettuce, 263.
Raspberry, anthracnose, 166.
cane blight, 167.
crown gall, 168.
fruit rot, 168.
leaf spot, 168.
orange rusts, 168.
powdery mildew, 168.
rust, 168.
spur blight, 167.
sun scald, 168.
yellows, 167.
Ray blight, chrysanthemum, 300.
Razoumofskya sp., pine, 296.
Red leaf, clover, 73.
oats, 58.
Red root rot, tobacco, 273.
Red rot, sugar cane, 286.
Red stripe, sugar cane, 286.
Red top, powdery mildew, 76.
stem rust, 76.
Reed grass, Epichloe typhina, 79.
Rhabdospora rhoina, apple, 137.
Rheosporangium aphanidermatus, beet, 254.
radish, 241.
Rhizoctonia, aster, 299.
beet, 253.
carrot, 254.
celery, 259.
cotton, 281.
crocorum, alfalfa, 70.
potato, 204.
eggplant, 260.
fig, 177.
geranium, 300.
kale, 240.
onion, 235.
pea, 267.
solani, potato, 319.
sp., cassava, 255.
cotton, 282.
cowpea, 74.
cucumber, 248.
geranium, 300.
ginseng, 260.
lettuce, 262.
peanut, 269.
tobacco, 273.
tomato, 219.
watermelon, 252.
spp., alfalfa, 70.
bean, 230.
lima bean, 265.
strawberry, 166.
tomato, 214.
wheat, 37.
Rhizopus nigricans, beet, 254.
strawberry, 165.
sweet potato, 224, 225.
potato, 204.
sp., pear, 141.
tomato, 220.
spp., peach, 154.
Rhubarb, anthracnose, 270.
bacterial crown rot, 271.
leaf spot, Alternaria, 270.
Ascochyta, 270.
Phyllosticta, 270.
Rhynchosporium graminicola, wheat, 37.
secalis, barley, 49.
rye, 42.

Rhytisma acerinum, maple, 293.
punctatum, maple. 292.
salicinum, willow, 298.
Ribes sp., pinon blister rust, 295.
Rice, black speck, 67.
blast, 66.
green smut, 67.
smut, 66.
straight head, 66.
Rind disease, sugar cane, 287.
Ring rot, sugar cane, 286.
Ring spot, cabbage, 239.
Ripe rot, cranberry, 171.
grape, 163.
Root knot, alfalfa, 71.
bean, 231.
beet, 253.
begonia, 299.
cabbage, 238.
cantaloupe, 245.
carnation, 299.
carrot, 254.
celery, 259.
clematis, 300.
cotton, 276, 279, 329.
cowpea, 74.
cucumber, 248.
eggplant, 260.
lettuce, 264.
lima bean, 265.
okra, 265.
onion, 235.
pea, 269.
peach, 155.
pepper, 270.
potato, 200.
sugar cane, 286.
sweet potato, 225.
tobacco, 273.
tomato, 220.
turnip, 242.
violet, 305.
watermelon, 252.
Root rots, apple, 138.
Armillaria, apple, 137.
cherry, 160.
peach, 155.
bacterial, corn, 65.
horseradish, 240.
bean, 326, 327.
brown checked, oak, 294.
cabbage, 240.
clover, 73.
Clitocybe, apple, 137.
cherry, 160.
peach, 155.
Fusarium, alfalfa, 71.
corn, 60, 317.
lima bean, 265.
pea, 267.
sweet clover, 74.
sweet pea, 304.
Gibberella, corn, 60.
Marasmius, sugar cane, 285.
Ozonium, alfalfa, 71.
apple, 137.
bean, 231.
castor bean, 305.
cotton, 280.
cowpea, 74.
elm, 290.
grape, 163.
hollyhock, 301.
mulberry, 172.
okra, 265.
peanut, 269.
privet, 302.
sweet potato, 225.
umbrella tree, 298.
Phoma, celery, 259.
Phytophthora, cassava, 255.
pine, 297.
Pythium, pea, 267.
Rhizoctonia, alfalfa, 70.
cassava, 255.
lima bean, 265.
pea, 267.
wheat, 37.
Sclerotinia, alfalfa, 70.
clover, 73.
Sclerotium, peanut, 269.
pepper, 269.
violet, 305.
shoestring, oak, 294.
Thielavia, horseradish, 240.
sweet pea, 304.
white, oak, 294.
Xylaria, apple, 137.
Rose, anthracnose, 303.
black spot, 303.
bud rot, 303.
cane blight, 303.
canker, 304.
crown gall, 303.
frost blister, 303.
leaf spot, 303.

powdery mildew, 302.
rusts, 303.
winter injury, 303.
Rosellinia sp., coffee, 305.
Rosette, apple, 130.
lettuce, 262.
peach, 152.
pecan, 179.
Rots, bacterial, lettuce, 264.
tomato, 221.
bacterial soft, cantaloupe, 245.
carrot, 254.
cucumber, 248.
tomato, 221.
turnip, 241.
black mold, peach, 154.
Botrytis, iris, 301.
Diplodia, tomato, 220.
gray mold, cantaloupe, 244.
lettuce, 261.
strawberry, 164.
Phoma, tomato, 217.
Phytophthora, apple, 135.
pear, 142.
Rhizopus, peach, 154.
strawberry, 165.
tomato, 220.
Rhizopus soft, pear, 141.
sweet potato, 224, 225.
Sclerotium, carrot, 254.
taro, 272.
slimy soft, cabbage, 238.
lettuce, 263.
soft, carrot, 255.
soft heartwood, oak, 294.
Rust, alfalfa, 71.
apple, 103.
ash, 288.
asparagus, 252.
bean, 228.
Bermuda grass, 77.
blue joint grass, 77.
buckthorn, 288.
carnation, 299.
celery, 259.
chrysanthemum, 300.
clover, 72.
corn, 64.
cotton, 276.
cowpea, 74.
currant, 170.
dandelion, 305.
elder, 290.
fig, 177.
flax, 68.
geranium, 300.
goldenrod, 301.
gooseberry, 171.
hawthorn, 290.
horse bean, 260.
juniper, 291.
Lactuca pulchella, 305.
lima bean, 264.
mountain ash, 288.
nettle, 306.
oak, 294.
onion, 235.
panic grass, 79.
pea, 268.
peach, 155.
pine, 296.
plum, 158.
poplar, 297.
quince, 144.
raspberry, 168.
rose, 303.
salt grass, 80.
Scotch pine, 297.
snapdragon, 304.
sorghum, 69.
spinach, 272.
sumac, 298.
sunflower, 304.
tobacco, 273.
violet, 305.
willow, 298.
Rutabaga, black rot, 241.
leaf spot, 241.
powdery mildew, 241.
Rye, anthracnose, 40.
bacterial disease, 42.
broken stem, 42.
Epicoccum sphaerosporium, 42.
ergot, 41.
head smut, 41.
Helminthosporium sp., 42.
powdery mildew, 41.
Rhynchosporium blight, 42.
rust, leaf, 38, 311.
stem, 37, 311.
scab, 39, 311.
Septoria, 42.
stem smut, 41.
sterility, 42.
Rye grass, stem rust, 80.
stripe rust, 80.

S

Salsify, white rust, 271.
Salt grass, rust, 80.
Salvia, Cladosporium aphidis, 304.
Sap rot, box elder, 288.
catalpa, 289.
cherry, 161.
Scab, almond, 161.
apple, 84, 332.
apricot, 161.
avocado, 178.
barley, 48, 314.
beet, 253.
brome grass, 77.
citrus, 172.
cucumber, 247.
oats, 57.
orchard grass, 77.
peach, 150.
pear, 140.
pecan, 178.
plum, 158.
potato, 192.
radish, 241.
rye, 39, 311.
timothy, 75.
wheat, 21, 309.
wheat grass, 80.
Scaly bark, citrus, 175.
Schizophyllum commune, apple, 137.
cherry, 161.
Sclerospora graminicola, bristly foxtail grass, 78.
Sclerotinia cinerea, apricot, 161.
cherry, 160.
peach, 144, 330.
plum, 156.
cranberry, 171.
fructigena, juneberry, 291.
fuckeliana, tulip, 304.
libertiana, bean, 231.
cabbage, 239.
carrot, 254.
celery, 257.
clover, 73.
cucumber, 247.
lettuce, 261.
onion, 235.
watermelon, 251.
sp., apple, 128.
catalpa, 289.
pear, 142.
quince, 144.
radish, 241.
sunflower, 304.
trifoliorum, alfalfa, 70.
clover, 73.
Sclerotium bataticola, sweet potato, 226.
rolfsii, bean, 231.
beet, 253.
cabbage, 239.
cantaloupe, 243.
carrot, 254.
eggplant, 260.
peanut, 269.
pepper, 269.
potato, 204.
sugar cane, 286.
sweet potato, 225.
taro, 272.
tomato, 220.
violet, 305.
watermelon, 252.
sp., maple, 293.
rice, 67.
Scolecotrichum graminis, blue grass, 76.
squirrel tail grass, 80.
timothy, 75.
Scurf, potato, 190.
sweet potato, 223.
Septobasidium pedicillatum, apple, 136.
Septoria bataticola, sweet potato, 225.
chrysanthemella, chrysanthemum, 300.
curvata, black locust, 291.
graminum, squirrel tail grass, 80.
wheat grass, 80.
hydrangeae, hydrangea, 301.
irregularis, sumac, 298.
lycopersici, tomato, 205, 323.
petroselini, apii, celery, 255.
pisi, pea, 268.
rubi, blackberry, 169.
raspberry, 168.
rye, 42.
sp., barley, 50.
blue grass, 76.
oats, 58.
spp., wheat, 34.
wild rye, 81.
Sequoia, Botrytis douglasii, 297.
Cercospora sequoiae, 297.
Sheath rot, sugar cane, 286.

Shepherd's purse, white rust, 306.
Shot hole, cherry, 161.
oak, 294.
Silver leaf disease, apple, 136.
Silver leaf, cherry, 161.
plum, 158.
Silver top, blue grass, 76.
Slime mold, strawberry, 166.
Small fruits, 162.
Smudge, onion, 234.
Smut, bristly foxtail grass, 78.
corn, 59, 317.
crab grass, 78.
European millet, 76.
Italian millet, 76.
oats, 50.
onion, 232.
porcupine grass, 79.
rice, 66.
sugar cane, 287.
wheat grass, 80.
wild rye, 81.
Snapdragon, anthracnose, 304.
rust, 304.
Soil rot, potato, 204.
sweet potato, 223.
tomato, 219.
Sooty blotch, apple, 122.
pear, 142.
Sooty mold, chrysanthemum, 300.
Sooty spot, clover, 73.
Sore shin, cotton, 282.
Sorghum, bacterial blight, 69.
covered kernel smut, 68.
head smut, 69.
loose kernel smut, 68.
rust, 69.
Southern blight, bean, 231.
cantaloupe, 243.
eggplant, 260.
potato, 204.
sweet potato, 225.
watermelon, 252.
Soy bean, bacterial blight, 75.
leaf spot, 75.
stem rot, 75.
streak, 75.
Spegazzinia ornata, magnolia, 291.
Sphacelotheca cruenta, sorghum, 68.
reiliana, corn, 65.
sorghum, 69.
sorghi, sorghum, 68.
Sphaeronema fimbriatum, sweet potato, 222, 325.
Sphaeropsis conglobata, birch, 288.
Sphaerotheca humuli, blackberry, 170.
geranium, 300.
phlox, 302.
strawberry, 165.
humuli fuliginea, dandelion, 305.
mors-uvae, gooseberry, 171.
pannosa, peach, 154.
rose, 302.
sp., honey locust, 291.
raspberry, 168.
Spinach, anthracnose, 272.
black mold, 272.
blight, 271.
damping off, 272.
downy mildew, 271.
frost injury, 272.
leaf spot, 272.
rust, 272.
Spindling sprout, potato, 204.
Split pit, peach, 155.
Spongospora subterranea, potato, 204.
Sporonema oxycocci, cranberry, 171.
Sporotrichum sp., blue grass, 76.
Spot blotch, barley, 49.
Spot, butternut, 288.
Spotting, pepper, 270.
Spray injury, apple, 134.
peach, 155.
potato, 205.
Spring frost injury, apple, 133.
Spur blight, blackberry, 170.
raspberry, 167.
Squash, downy mildew, 248.
mosaic, 248.
wilt, bacterial, 248.
Fusarium, 248.
Squirrel tail grass, leafspot, Scolecotrichum, 80.
Septoria, 80.
rust, leaf, 80.
stem, 80.
Stalk rot, Fusarium, corn, 60.
Gibberella, corn, 60.
Stem disease, Diplodina, alfalfa, 71.
Phoma, alfalfa, 71.
Stem end rot, Diplodia, citrus, 175.
watermelon, 250.
Phomopsis, citrus, 173.
watermelon, 252.

Stem rot, Armillaria, potato, 204.
Botrytis, carnation, 299.
Corticium, carnation, 299.
potato, 190.
Fusarium, asparagus, 253.
bean, 230.
sweet pea, 304.
sweet potato, 222, 325.
Mycosphaerella, watermelon, 251.
peanut, 269.
Pythium, corn, 66.
Rhizoctonia, bean, 230.
lettuce, 262.
watermelon, 252.
Sclerotinia, cucumber, 247.
watermelon, 251.
Sclerotium, beet, 253.
soy bean, 75.
Stem rust, barley, 46, 314.
brome grass, 77.
fescue grass, 78.
oats, 54, 315.
orchard grass, 77.
red top, 76.
rye, 37, 311.
rye grass, 80.
squirrel tail grass, 80.
timothy, 75.
wheat, 15, 309.
wheat grass, 81.
wild oats, 81.
wild rye, 81.
Stem smut, rye, 41.
Stem spot, alfalfa, 71.
Stereum purpureum, cherry, 161.
versicolor, catalpa, 289.
Sterility, oats, 58.
rye, 42.
Stone fruits, 144.
Storage rot, apple, 136.
Botrytis, carrot, 255.
Penicillium, carrot, 255.
sweet potato, 226, 325.
Storage scald, apple, 132.
Straight head, rice, 66.
Strawberry, crown rot, 166.
drought injury, 166.
frost injury, 166.
fruit rot, 166.
leaf blight, 166.
leaf blotch, 166.
leaf spot, 164.
nematode, 165.
powdery mildew, 165.
rot, gray mold, 164.
Rhizopus, 165.
slime mold, 166.
winter injury, 166.
Streak, bean, 232.
clover, 73.
cowpea, 74.
potato, 205.
soy bean, 75.
sweet pea, 304.
tomato, 221.
Stripe barley, 45, 313.
wheat, 37.
Stripe rust, barley, 50.
canary grass, 78.
rye grass, 80.
wheat, 21.
Stunt, celery, 258.
Sub-tropical fruits, 172.
Sugar beet (see beet), 253.
Sugar beet nematode, beet, 254.
Sugar cane, leaf spot, Cercospora, 287.
Helminthosporium, 287.
Leptosphaeria, 286.
mosaic, 283.
pineapple disease, 286.
red rot, 286.
red stripe, 286.
rind disease, 287.
ring rot, 286.
root knot, 286.
root rot, 285.
sheath rot, 286.
smut, 287.
summary of survey, 283.
wrinkled top, 287.
Sumac, canker, 298.
leaf spot, Phyllosticta, 298.
Septoria, 298.
rust, 298.
Summary of sugar cane survey, 283.
Summary of cereal survey, 4, 5.
Summer blight, tomato, 220.
Sunflower, downy mildew, 304.
powdery mildew, 304.
rust, 304.
wilt, 304.
Sun scald, apple, 133.
gooseberry, 171.
horse bean, 261.
pepper, 270.
potato, 205.

raspberry, 168.
tomato, 220.
Sweet clover, Ascochyta caulicola, 74.
leaf spot, 74.
root rot, 74.
Sweet pea, mosaic, 304.
pod rot, 304.
powdery mildew, 304.
root rot, Fusarium, 304.
Thielavia, 304.
stem rot, 304.
streak, 304.
Sweet potato, black rot, 222, 325.
charcoal rot, 226.
curly leaf, 226.
dry rot, 224.
foot rot, 222, 325.
leaf spot, Phyllosticta, 225.
Septoria, 225.
Java black rot, 225.
mosaic, 226.
pox, 325.
root knot, 225.
root rot, 225.
rot, Rhizopus soft, 224, 225.
scurf, 223.
soil rot, 223.
southern blight, 225.
stem rot, 325.
Fusarium, 222.
storage rot, 226, 325.
white rust, 224.
Swiss chard, leaf spot, 272.
Sycamore, anthracnose, 298.
Syringa, Phoma landeghemiae, 304.

T

Take-all, wheat, 14.
Taphrina, plum, 158.
coerulescens, oak, 294.
Tapioca (see Cassava), 255.
Taro, corm rot, 272.
Phythophthora colocasiae, 272.
rot, 272.
Tar spot, maple, 293.
willow, 298.
Texas root rot (see also Ozonium omnivorum), umbrella tree, 298.
Thelephora pedicillata, apple, 136.
Thielavia basicola, horseradish, 240.
sweet pea, 304.
tobacco, 273.
Thielaviopsis paradoxa, pineapple, 176.
sugar cane, 286.
Tilletia horrida, rice, 66.
laevis, wheat, 2, 309.
tritici, wheat, 2, 309.
Timothy, blade blight, 76.
ergot, 75.
leaf blight, 75.
leaf smut, 75.
powdery mildew, 75.
scab, 75.
stem rust, 75.
Tip burn, cabbage, 240.
cantaloupe, 245.
lettuce, 262.
onion, 235.
potato, 200, 321.
tomato, 221.
Tobacco, angular leaf spot, 273.
black root rot, 273.
damping off, 273.
Fusarium wilt, 273.
hollow stalk, 273.
leaf spot, 273.
mosaic, 273.
Orobanche ludoviciana, 273.
potash hunger, 273.
red root rot, 273.
root knot, 273.
rust, 273.
wild fire, 273,
Tomato, anthracnose, 220.
blossom end rot, 216.
brown ring spot, 220.
buckeye rot, 217.
catface, 221.
collar rot, 219.
damping off, 220.
early blight, 210, 323.
failure to set, 221.
Grand Rapids disease, 220.
growth cracks, 221.
late blight, 212.
leaf mold, 219.
leaf spot, 205, 323.
lightning injury, 221.
Macrosporium solani, 219.
mosaic, 211.
nailhead spot, 210.
oedema, 221.
rain injury, 221.
Rhizoctonia, 219.

root knot, 220.
rot, bacterial, 221.
Diplodia, 220.
Phoma, 217.
Rhizopus, 220.
Sclerotium blight, 220.
soil rot, 219.
streak, 221.
summer blight, 220.
sun scald, 220.
tip burn, 221.
white spot, 220.
wilt, bacterial, 215, 323.
Fusarium, 207, 323.
Phytophthora, 221.
winter blight, 220.
yellow blight, 214, 323.
yellowing, 220.
Tuber rot, Armillaria, potato, 204.
Fusarium, potato, 199.
Tulip, blight, 304.
leaf spot, 304.
white rot, 304.
white spot, 304.
Tulip tree, leaf spots, 298.
Turnip, black rot, 241.
Cercosporella albo-maculans, 242.
club root, 241.
downy mildew, 241.
leaf spot, Alternaria, 242.
Cercospora, 242.
Macrosporium, 242.
powdery mildew, 241.
root knot, 242.
soft rot, 241.
white rust, 241.
Twig blight, Austrian pine, 297.
oak, 294.
poplar, 297.
Tylenchus, dipsaci, clover, 72.
strawberry, 165.
tritici, wheat, 27.

U

Umbrella tree, Texas root rot, 298.
Uncinula aceris, maple, 293.
necator, Ampelopsis sp., 299.
grape, 163.
salicis, poplar, 297.
willow, 298.
Undetermined disease, aster, 299.
cabbage, 239.
Urocystis cepulae, onion, 232.
occulta, rye, 41.
tritici, wheat, 13.
Uromyces appendiculatus, bean, 228.
lima bean, 264.
caryophyllinus, carnation, 299.
fallens, clover, 72.
geranii, geranium, 300.
medicaginis, alfalfa, 71.
pisi, pea, 268.
sp., cowpea, 74.
horsebean, 260.
spp,, clover, 72.
trifolii, clover, 72.
Ustilaginoidea virens, rice, 67.
Ustilago avenae, oats, 50, 315.
crameri, Italian millet, 76.
hordei, barley, 42, 313.
hypodytes, porcupine grass, 79.
levis, oats, 50, 315.
macrospora, wheat grass, 80.
neglecta, bristly foxtail grass, 78.
nuda, barley, 44, 313.
panici-miliacei, European millet, 76.
rabenhorstiana, crab grass, 78.
sacchari, sugar cane, 287.
sp., rye, 41.
striaeformis, timothy, 75.
wild rye, 81.
tritici, wheat, 10, 309.
zeae, corn, 59, 317.

V

Valsa abietis, larch, 291.
leucostoma, peach, 155.
plum, 158.
leucostoma cincta, cherry, 161.
Velvet bean, leaf spot, 75.
Venturia inaequalis, apple, 84, 332.
pyrina, pear, 140.
Verbena, powdery mildew, 305.
Vermicularia circinans, onion, 234.
Verticillium albo-atrum, okra, 265.
potato, 190.
sp., eggplant, 260.
Vetch, blight, 74.
downy mildew, 74.
Violet, leaf spot, 305.
root knot, 305.
root rot, 305.
rust, 305.
Violet root rot, alfalfa, 70.

potato, 204.

W

Walnut, bacterial blight, 179.
crown gall, 179.
leaf spot, 298.
Wart, potato, 194.
Water core, apple, 131.
Water injury, apricot, 161.
peach, 155.
Watermelon, anthracnose, 248.
blossom end rot, 251.
leaf rot, 251.
leaf spot, 251.
root knot, 252.
southern blight, 252.
stem end rot, 252.
Diplodia, 250.
stem rot, Mycosphaerella, 251.
Rhizoctonia, 252.
Sclerotinia, 251.
wilt, bacterial, 251.
Fusarium, 251.
Watery soft rot, bean, 231.
carrot, 254.
cucumber, 247.
lettuce, 261.
onion, 235.
Wet weather injury, cotton, 282.
Wheat, Alternaria sp., 37.
anthracnose, 33.
basal glume rot, 36.
black chaff, 32.
bunt, 2, 309.
Cladosporium sp., 37.
ergot, 35.
flag smut, 13.
foot rot, 14.
frost injury, 37.
glume blotch, 34.
Helminthosporium blight, 36.
leaf spot, 34.
loose smut, 10, 309.
losses from loose smut, 12.
nematode, 27.
powdery mildew, 35.
Rhynchosporium graminicola, 37.
Rhizoctonia root rot, 37.
rust, leaf, 19, 309.
stem, 15, 309.
stripe, 21.
scab, 21, 309.
stripe, 37.
summary of survey, 4, 5.
take-all, 14.
white spot, 37.
Wheat grass, anthracnose, 80.
black leaf spot, 80.
ergot, 80.
leaf spot, 80.
powdery mildew, 80.
rust, leaf, 80.
stem, 81.
scab, 80.
smut, 80.
White heart rot, oak, 294.
White leaf spot, alfalfa, 71.
White rot, grape, 163.
tulip, 304.
White rust, horseradish, 240.
mustard, 240.
radish, 241.
salsify, 271.
shepherd's purse, 306.
sweet potato, 224.
turnip, 241.
White spot, tomato, 220.
tulip, 304.
wheat, 37.
Wild fire, tobacco, 273.
Wild oats, powdery mildew, 81.
stem rust, 81.
Wild rye, Epichloe typhina, 81.
ergot, 81.
leaf spot, Phyllachora, 81.
Septoria, 81.
powdery mildew, 81.
rust, leaf, 81.
stem, 81.
smut, 81.
Willow, leaf rust, 298.
powdery mildew, 298.
rust, 298.
tar spot, 298.
wood rot, 298.
Wilt, bacterial, cantaloupe, 242.
corn, 63.
cucumber, 245.
eggplant, 259.
pepper, 269.
potato, 190.
squash, 248.
tomato, 215, 323.
watermelon, 251.
catalpa, 289.

cotton, 276.
eggplant, 260.
Fusarium, aster, 299.
banana, 178.
cantaloupe, 243.
cotton, 277, 329.
cowpea, 74.
cucumber, 248.
eggplant, 260.
flax, 67.
lettuce, 263.
mustard, 241.
pepper, 270.
potato. 189, 319.
squash, 248.
tobacco, 273.
tomato, 207, 323.
watermelon, 251.
Lasiodiplodia, plum, 158.
peanut, 269.
Phytophthora, tomato, 221.
Sclerotinia, sunflower, 304.
Sclerotinm, cabbage, 239.
Verticillium, eggplant, 260.
potato, 190.
okra, 265.
Winter blight, tomato, 220.
Winter injury, apple, 133.
Austrian pine, 297.
cherry, 161.
maple, 292.
peach, 156.
pear, 143.
plum, 159.
privet, 302.
rose, 303.
strawberry, 166.
Witches broom, cherry, 160.
Wither tip, citrus, 174.
Wood rot, willow, 298.
Wrinkled top, sugar cane, 287.

X

Xylaria sp., apple, 137.

Y

Yellow blight, tomato, 214, 323.
Yellowing, alfalfa, 71.
tomato, 220.
Yellow leaf blotch, alfalfa, 69.
Yellows, aster, 299.
cabbage, 236.
celery, 258.
kale, 240.
peach, 152.
plum, 159.
raspberry, 167.

ERRATA AND EXPLANATION

Page

48 Read "Gibberella saubinetii" instead of "Gibberella saubinettii".

57 Read "Gibberella saubinetii" instead of "Gibberella saubinettii".

69 Alfalfa, read "Medicago sativa" instead of "Medicaco sativa".

171 Cranberry, read "Exobasidium vaccinii" instead of "Exobasisium vaccinii".

189 Read "Fusarium oxysporum" instead of "Fusarium oxysporium".

204 Read "Cystospora batata" instead of "Cyptospora batata".

222 Read "Fusarium batatatis" instead of Fusarium batatis".

240 Horseradish, read "Alternaria brassicae" instead of "Alternaira brassicae".

297 Sequoia, read "Botrytis douglasii" instead of "Botrytis douglassi".

300 Evonymus, read "Exosporium concentricum" instead of "Exosporium concentrichum".

305 Read "Lactuca pulchella" instead of "Lactuca pulchelia".

325 Read "Fusarium batatatis" instead of Fusarium batatis".

329 Read "Colletotrichum gossypii" instead of "Colletotrichum gossypsii".

Library,
Bureau of Plant Industry.